

CALIFORNIA

Science and Engineering Profile

	California	U.S.	Rank		California	U.S.	Rank
Doctoral scientists, 1993	54,713	430,332	1	Total R&D performance, 1993 (millions)	\$33,721	\$161,427	1
Doctoral engineers, 1993	13,424	81,293	1	Industry R&D, 1993 (millions)	\$26,541	\$117,622	1
S&E doctorates awarded, 1993	3,521	25,409	1	Academic R&D, 1993 (millions)	\$2,380	\$19,489	1
of which, in engineering	22%	22%		of which, in life sciences	58%	55%	
in psychology	19%	13%		in engineering	13%	16%	
in life sciences	19%	24%		in physical sciences	13%	11%	
S&E postdoctorates, 1993				Higher education current-fund			
in doctorate-granting institutions	5,771	34,394	1	expenditures, 1993 (millions)	\$19,709	\$163,994	1
S&E graduate students, 1993				Number of SBIR awards, 1990-93	3,189	13,995	1
in doctorate-granting institutions	45,634	438,128	1	Patents issued to state residents, 1994	8,956	56,039	1
Population, 1994 (000s)	31,431	260,341	1	Gross state product, 1992 (billions)	\$787.9	\$5,994.1	1
Civilian labor force, 1994 (000s)	15,470	131,013	1	of which, agriculture	2%	2%	
Personal income per capita, 1994	\$22,493	\$21,809	15	manufacturing, mining, construction	19%	23%	
Federal spending				transportation, communication, utilities	7%	9%	
Total expenditures 1994 (millions)	\$155,391	\$1,284,896	1	wholesale and retail trade	16%	16%	
R&D obligations 1993 (millions)	\$14,884	\$65,394	1	finance, insurance, real estate	21%	18%	
				services	23%	20%	
				government	12%	12%	

Rankings and totals are based on data for the 50 States and D.C.

Federal Obligations for Research and Development in California by Agency and Performer: Fiscal Year 1993

[Thousands of dollars]

	Total	Federal intramural	All FFRDCs	Industrial firms	Universities & colleges	Other nonprofits	State & local government	State rank
Total, all agencies	14,883,737	1,785,138	1,950,560	9,194,852	1,592,861	338,161	22,165	1
Department of Agriculture	75,054	52,554	0	273	21,806	421	0	3
Department of Commerce	51,500	34,932	0	10,464	5,280	0	824	3
Department of Defense	9,525,466	1,419,658	360,042	7,485,984	222,225	37,557	0	1
Department of Energy	1,150,362	3,393	887,444	130,571	103,743	25,211	0	2
Dept. of Health & Human Services	1,147,249	2,461	18,061	35,484	841,953	237,473	11,817	2
Department of the Interior	40,275	32,064	0	1,906	5,873	257	175	3
Department of Transportation	29,876	4,533	300	11,514	5,703	0	7,826	6
Environmental Protection Agency	13,937	0	0	7,887	4,854	0	1,196	9
Nat'l Aeronautics & Space Admin.	2,564,287	234,903	684,295	1,486,755	137,246	20,931	157	1
National Science Foundation	285,731	640	418	24,014	244,178	16,311	170	1
State rank	1	2	1	1	1	2	2	

Federal R&D obligations are as reported by funding agencies.

FFRDC = federally funded research and development center

SBIR = small business innovation research

na = not applicable

Prepared by the National Science Foundation/Division of Science Resources Studies. Data compiled from numerous sources.